



BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

BYATARAYANAPURA DIVISION

KODIGEHALLI SUB DIVISOIN

**Name of the Work : Improvements to Roads, Drains and Asphlting
to Roads in Vinayaka layout 2nd Main , 2nd
Stage in ward no. 7, Byatarayanapura in
Kodigehalli sub division**

Estimate Cost : 19.90 Lakhs

P-Code : 1771 of 2012-13

Estimate No : AEE/KSD/E.NO/ 170/2012-13

ತಾಂತ್ರಿಕ ವರದಿ

**ವಿಷಯ:- Improvements to Roads, Drains and Asphaltting to Roads
in Vinayaka layout 2nd Main , 2nd Stage in ward no. 7,
Byatarayanapura in Kodigehalli sub division**

Est.Cost.: 19.90 Lakhs

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ಈ ಮೇಲ್ಕಂಡ ಕಾಮಗಾರಿಯು 2012-13ನೇ ಸಾಲಿನ ಪಿ.ಒ.ಡಬ್ಲ್ಯೂ. ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ವಾರ್ಡ್ ನಂ. 7ಕ್ಕೆ ನೀಡಿರುವ ರೂ. 3.00 ಕೋಟಿ ಅನುದಾನದ ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ರೂ. 19.90 ಲಕ್ಷಕ್ಕೆ ಸೇರ್ಪಡೆಯಾಗಿ ವಾರ್ಡ್ ಮಟ್ಟದ ಸಾರ್ವಜನಿಕ ಕಾಮಗಾರಿ ಸ್ಥಾಯಿಸಮಿತಿಯಿಂದ ಅನುಮೋದನೆಗೊಂಡಿರುತ್ತದೆ.

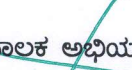
ಈ ಹಿನ್ನೆಲೆಯಲ್ಲಿ, ಸದರಿ ಈ ಮೇಲ್ಕಂಡ ಕಾಮಗಾರಿ ಸ್ಥಳವನ್ನು ನಾವುಗಳು ಖುದ್ದಾಗಿ ನಗರಪಾಲಿಕೆ ಸದಸ್ಯರೊಂದಿಗೆ ಪರಿಶೀಲಿಸಿದ್ದು, ಸದರಿಯವರು ತಿಳಿಸಿರುವ ಹಾಗೂ ಅತಿ ಅವಶ್ಯಕ ಹಾಗೂ ತುರ್ತು ಎಂದು ಕಂಡು ಬಂದಿರುವ ಅಂಶಗಳನ್ನು ಸದರಿ ಅಂದಾಜಿನಲ್ಲಿ ಅನುವು ಮಾಡಲಾಗಿದೆ.

1. Removing BS Slab of drain and stacking.
2. Refixing stone slabs of drains and pointing in CM 1:3.
3. Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6)
4. Earth work excavation by manual means in Ordinary Soil
5. Compaction of original ground
6. Providing, laying, spreading and compacting graded stones aggregate to wet mix
7. Providing and applying primer coat with bitumen emulsion
8. Providing and laying semi dense bituminous concrete 25 mm
9. Construction of Cross Drain -1 No.

ಈ ಮೇಲ್ಕಂಡ ಎಲ್ಲಾ ಅಂಶಗಳ ಅವಶ್ಯಕತೆಗೆ ಅನುಗುಣವಾಗಿ ಅಂದಾಜಿನಲ್ಲಿ ಅಳವಡಿಸಿಕೊಂಡು 2012-13ನೇ ಸಾಲಿನ ಅಧೀಕ್ಷಕ ಅಭಿಯಂತರರು, ಲೋಕೋಪಯೋಗಿ ಇಲಾಖಾ ದರಪಟ್ಟಿ ಬೆಂಗಳೂರು ವೃತ್ತದ ಎಸ್.ಆರ್. ದರದಲ್ಲಿ ಅಂದಾಜು ಪಟ್ಟಿಯನ್ನು ರೂ. 19.90 ಲಕ್ಷಗಳಿಗೆ ತಯಾರಿಸಲಾಗಿರುತ್ತದೆ.


ಕಿರಿಯ ಅಭಿಯಂತರರು
ವಾರ್ಡ್ ನಂ. 7


ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಕೊಡಿಗೆಹಳ್ಳಿ ಉಪವಿಭಾಗ


ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- Improvements to Roads, Drains and Asphlting to Roads in Vinayaka layout 2nd Main , 2nd Stage
in ward no. 7, Byatarayanapura in Kodigehalli sub division

ESTIMATED COST 1990000.00

Sl No	Description of work	Unit	No	Length	Breadth	Depth	Quantity	Rate in Rs	Amount in Rs
1	Removing BS Slab of drain and stacking. (P.No.28, I.No.5.32 of PW,P&IWD S.R 2012-13)						Sqm		
	Main Roads								
	2nd Main 2nd stage & Souroundings area cross roads		1x2	286	1.65		943.80		
							943.80	44.47	41975.00
	Basic Rate Rs.	41.18							
	Add 8% A.W Rs.	3.29							
	Total Rate Rs.	44.47							
2	Refixing stone slabs of drains and pointing in CM 1:3. (P.No.28, I.No. 5.33 of PW,P&IWD S.R 2012-13)						Sqm		
			Qty Same as I.No.1 (70%)				660.66	63.00	41619.00
	Basic Rate Rs.	58.33							
	Add 8% A.W Rs.	4.67							
	Total Rate Rs.	63.00							
3	Providing granite slabs of selected quality roughly dressed and fixed in cement mortar (1:6) including fixing curing etc., complete. (7.50cms thick) (P.No.28, I.No.5.31.1 of PW,P&IWD SR 2012-13)								
		Sqm							
			Qty Same as I.No.1 (20%)				188.76	315.36	59527.00
	Basic Rate Rs.	292.00							
	Add 8% A.W Rs.	23.36							
	Total Rate Rs.	315.36							
4	KSRRB M300-2: Earth work excavation by manual means in Ordinary Soil involving an average horizontal throw up to 2mts and an average lift up to 0.5m, excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specifications complete as per specifications. MORTH Chapter 3. (P.No.145, I.No.19.1 of PW,P&IWD S.R 2012-13)						Cum		
	2nd Main 2nd stage & Souroundings area cross roads		1	286	12.00	0.20	686.40		
	Basic Rate Rs.	54.00					686.40	58.32	40031.00
	Add 8% A.W Rs.	4.32							
	Total Rate Rs.	58.32							
5	KSRRB 300-58. Compaction of original ground with maximum of 6 passes of 8 to 10 tonnes power roller including filling in depression occuring during rolling including cost of all labour, HOM of machinery complete as per specifications. 167, I.No. 19.64) SR 2012-13						Sqm		
	2nd Main 2nd stage & Souroundings area cross roads		1	286	12.00		3432.00		
							3432.00	3.78	12973.00
	Basic Rate	3.50							
	Area Weightage @ 8%	0.28							
	Total	3.78							

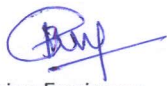
6	KSRRB M400-17. Providing, laying, spreading and compacting graded stones aggregate to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed method of tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications. (P. 167. Item No. 20.18) SR 12-13						Cum		
	2nd Main 2nd stage & Souroundings area cross roads		1	286	12.00	0.20	686.40		
							686.40	1059.48	727227.00
	Basic Rate Rs.	981.00							
	Add 8% A.W Rs.	78.48							
	Total Rate Rs.	1059.48							
7	KSRRB M500-6. Providing and applying primer coat with bitumen emulsion on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.60 kg / sqm using mechanical means complete as per specifications. (P. 172. Item No. 21.6) SR 12-13						Sqm		
	2nd Main 2nd stage & Souroundings area cross roads		1	286	12.00		3432.00		
	Basic Rate Rs.	36.70					3432.00	39.64	136031.00
	Add 8% A.W Rs.	2.94							
	Total Rate Rs.	39.64							
8	KSRRB M500-18. Providing and laying semi dense bituminous concrete 25 mm thick with 100-120 TPH batch type HMP producing an average output of 75 tonnes per hour using crushed aggregates of specified grading, premixed with bituminous binder at 4.5 to 5% of mix and filler, transporting the hot mix to work site, laying with a hydrostatic paver finisher with sensor control to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH specification clause No. 500.8 complete in all respects as per specifications. with 80/100 grade bitumen using 40-60 HMP using mechanical paver (P. 174. Item No. 20.19) SR 12-13						Cum		
	2nd Main 2nd stage & Souroundings area cross roads		1	286	12.00	0.025	85.80		
							85.80	8992.08	771520.00
	Basic Rate Rs.	8326.00							
	Add 8% A.W Rs.	666.08							
	Total Rate Rs.	8992.08							
9	KSRRB 2-2.1 : Earthwork excavation for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5 (P. 5, I.No. 2.3) SR-2012-13						Cum		
	C.D.2 No		1	8.00	1.80	0.90	12.96		
							12.96	135.00	1750.00
	Basic Rate	125.00							
	Area Weightage @ 8%	10.00							
	Total	135.00							

10	KSRB 4-1.2: Providing and laying in position plain cement concrete of 1 mix M10 With OPC cement @ 220 Kgs with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P. 12, I.No. 4.2) SR-2012-13						Cum		
	C.D.2No		1	8.00	1.80	0.90	12.96		
							12.96	4129.92	53524.00
	Basic Rate	3824.00							
	Area Weightage @ 8%	305.92							
	Total	4129.92							
11	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (P. 25, I.No. 5.6) SR-2012-13						Cum		
	C.D.2 No		1x2	8.00	0.60	0.60	5.76		
							5.76	204.56	1178.00
	Basic Rate	2557.00							
	Area Weightage @ 8%	204.56							
	Total	204.56							
12	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifcations.						Sqm		
	C.D.2 No		1	8.00	0.60		4.80		
	Side		4	8.00	1.00		32.00		
			2	1.80	0.23		0.83		
							37.63	201.96	7599.00
	Basic Rate	187.00							
	Area Weightage @ 8%	14.96							
	Total	201.96							
13	KProviding and laying cement concrete using 20mm and down size granite jelly of ready mix concrete for RCC works laid in 15 cm thick layers and well compacted including vibrating curing etc., including smooth finish in CM 1:3, with all lead and lift etc., complete. (exculsive of cost of steel, fabrication and plastering charges)Ready mixed Cement concrete for Beams, Columns, Staircase and Roof with M-20 (1:1.5:3) (Cement-3320Kg/cum) (P. 19, I.No. 4.49.1) SR-						Cum		
	C.D.2 No		1	8.00	1.80	0.23	3.31		
							3.31	5639.76	18679.00
	Basic Rate	5222.00							
	Area Weightage @ 8%	417.76							
	Total	5639.76							
14	KSRB 4.9.2 : Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of						Qtl		
	C.D.2 No		1	8.00	1.80	0.23	3.31		
	80Kg/Cum						264.96		
							2.64	7323.48	19334.00
	Basic Rate	6781.00							
	Area Weightage @ 8%	542.48							
	Total	7323.48							

15	KSRB 15.1.3 – do – Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.119.I.No. 15.3) SR-2012-13						Sqm		
	C.D.2 No		1	8.00		0.60	4.80		
							4.80	71.60	344.00
	Basic Rate	66.30							
	Area Weightage @ 8%	5.30							
	Total	71.60							
16	Lead for Disposal of Debris shall be payable at carage rates by Mechanical means including loading and unloading. From 0.00 to 5.00 Km (Page No.141)						Cum		
	Basic rate for haulage of materials as per item no.17.4 page 141) Rs. 2.00								
	Average weight of earth 1.28 tonne		Qty vide Item No.4			--	686.40	81.72	56093.00
	Basic Tate Lead Charges upto 2.00 Kms	62.20							
	2x1.28x2=	5.12							
	Loading and unloading	67.32							
	Average Weight of earth 1.28 tone/kg for 6x1.20x2.00=12.00	14.40							
		81.72							
17	Miscellaneous & Rounding off								559
									596.00
							Toatl Rs.		1990000.00
(Rupees:- Nineteen Lakhs Ninety Thousand Only)									

CERTIFICATE:

- 1 The work spot has been inspected me and the work is found to be necessary.
- 2 The estimate is prepared as per PW, P&IWT D S.R Bangalore circle for the year 2011-2012.
- 3 The Provisions made in the estimate are quite necessary and adequate.
- 4 The area comes with in the BBMP limits.


Junior Engineer
Ward No. 07


Assistant Executive Engineer
Kodigehalli Sub Division
BBMP


Executive Engineer
Byatarayanapura Division
BBMP

Technical Sanction for Rs. 19.90 lakh	ADMINISTRATIVELY SANCTIONED FOR RS.
Nineteen lakh ninety thousand only	Rupees Nineteen lakh ninety thousand only
under P.D.S-2012-13	Under P.D.S-2012-13
P. 1721	P. 1721
registered as EE No. 304/1213	Registered as EE () No. 304/1213
Subject to conditions contained in enclosed memo.	Subject to conditions contained in enclosed memo EE () No. 711/1213
No. 304/1213	No. 711/1213
Dr. 10-1-13	Dr. 7-1-13
AE/JE	Estimate A/Sanctioned
EE (BTP. DIV.)	No. 711/1213
	Rs. 19.90 lakh

10/1/2013


Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92.